



INFO: 17 MAR 2006
PCT

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Shinji KAWATA et al.

Group Art Unit: 1615

Application No.: 10/500,925

Examiner: J. NOLAN

Filed: July 27, 2004

Docket No.: 120307

For: INSECTICIDE CONTAINING HYDRAZONE DERIVATIVE AS ACTIVE INGREDIENT
AND NOVEL HYDRAZONE DERIVATIVE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, Notice of Allowance or other action that closes prosecution (e.g., Quayle Action).
- ☒ a. Attached is our Check No. 177654 in the amount of \$180.00 in payment of the fee under 37 CFR §1.17(p). Please credit or debit Deposit Account No. 15-0461 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
- ☒ 2. One or more reference cited herein was cited in a counterpart foreign application. See References 1-21. English language versions of the foreign search reports are attached for the Examiner's information.
- ☒ 3. In accordance with 37 CFR §1.98(a)(2)(ii), copies of any U.S. patents and patent application publications are not attached.
- ☒ 4. An English language Abstract of one or more non-English language reference is attached hereto. See References 3, 5-7, 10-12, 14, 17, 18 and 20.

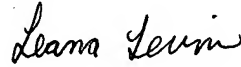
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- ☒ 5. A computer-generated English language translation of one or more Japanese Patent Publication cited herein has been obtained from the website of the Japanese Patent Office ([<http://www.jpo.go.jp>]), and is attached, but has not been reviewed for accuracy. See References 3 and 5.
- ☒ 6. References 1 and 2 are U.S. patent family members of reference 3.

Respectfully submitted,



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DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461
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Sheet 1 of 2

Form PTO-1449 (REV. 1/06)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 120307		APPLICATION NO. 10/500,925	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Shinji KAWATA et al.			
				FILING DATE July 27, 2004		GROUP 1615	
U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Date	Name			
	1	5,304,573	4/19/1994	HINO et al.			
	2	5,358,965	10/25/1994	HINO et al.			
FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Date	Country	With English Abstract	With English Translation	
	3	JP 05-262712	10/12/1993	JAPAN	x	x	
	4	WO 01-01781	1/11/2001	WIPO			
	5	JP 2001-072516	3/21/2001	JAPAN	x	x	
OTHER DOCUMENTS							
Examiner Initials	Cite No.	(Including Author, Title, Date, Pertinent Pages, etc.)					
	6	Abstract of M. O. Lozinskii et al., "Amides and Hydrazides of Arylazochloroacetic Acids," Zhurnal Obshchei Khimii, 1(10), pages 1871-1875, (1965).					
	7	Abstract of M. O. Lozinskii et al., "Condensation and Cyclization of Arylazochloroacetic Acids v. Chlorides, Arylamides, and Acylhydrazides of Arylazochloroacetic Acids," Zhurnal Obshchei Khimii, 1(11), pages 1976-1980, (1965).					
	8	Abstract of Alexander B. A. Jansen et al., "Synthesis of Methyl Benzylpenicillinate," Monatshefte fuer Chemie, 98 (3), pages 1017-1026, (1967).					
	9	Abstract of Yasuhiro Chigira et al., "Reaction of N-(.alpha.-acetoxycinnamoyl)-N-hydroxy derivatives of DL-alanine esters. Formation of imidazolidinone and its transformations into pyrrolidinedione and oxazolidinone," Bulletin of the Chemical Society of Japan, 42(1), pages 228-32, (1969).					
	10	Abstract of Klaus Hartke et al., "Thione and Dithioesters. XVIII. Reaction of Dithionoxalates with Phenylhydrazine," Chemiker-Zeitung, 98 (12), pages 618-619, (1974).					
	11	Abstract of Franz Alfred Neugebauer et al., "The Structure of 'diformazyl':5-bis(phenylazo)methylene-1,3-diphenyltetrazoline betaine," Chemische Berichte, 112(7), pages 2369-2379, (1979).					
	12	Abstract of I.M. Bazavova et al., "Study of a Series of Dithiocarbamic Acid Derivatives. VI. Methyl N-benzylthiocarbamate in aralkylthiocarbamoylation. Reaction of the Benzylamide of Carbamoylcyanothioacetic acid with aryldiazonium salts," Zhurnal Organicheskoi Khimii, 15(6), pages 1213-1217, (1979).					
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Date	Name			
	13	5,990,171	11/23/1999	SEITZ et al.			
FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Date	Country	With English Abstract	With English Translation	
OTHER DOCUMENTS							
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	14	Abstract of R. G. Dubenko et al., "Fungicidal Properties of Arylhydrazones of Glyoxylic Acid Substituted Derivatives," Fiziologicheskii Aktivnye Veshchestva, 13, pages 33-37, (1981).					
	15	Abstract of John C. Gilbert et al., "Reactions of alkylidenecarbenes derived from N,N-disubstituted-2-oxopropanamides: the formation of 3-pyrrol-2-ones and 2-butyramides," Journal of Organic Chemistry, 51(19), pages 3656-3663, (1986).					
	16	Abstract of Sandor Karady, et al., "1, 2, 5-Thiadiazole 1-oxides. IV. Ring transformation to 1,2,3,5-thiadiazole and 1,2,4,6-thiadiazine 1-oxide," Tetrahedron Letters, 26(50), pages 6155-6158, (1985).					
	17	Abstract of G. Waldheim et al., "The Coloring Constituent of the Spectrophotometric Determination of Phenylbutazone After Reaction with p-nitrophenyldiazonium Chloride," Pharmazie, 42(1), pages 11-15, (1987).					
	18	Abstract of G. Waldeim et al., "Studies of Ring Cleavage of Some 4-(4-nitrophenylazo)-substituted pyrazolidine-3,5-dione derivatives," Journal fuer Praktische Chemie, 332(5), pages 783-790, (1990).					
	19	Abstract of Masato Saito et al., "Antiviral Peptides with Non-natural Amino Acids," Akita Kogyo Koto Senmon Gakko Kenkyu Kiyo, 36, pages 40-43, (2001).					
	20	Abstract of R. Haessner et al., "Studies of the photochemical bleaching behavior of tautomeric monoazo dyes. III. Photochemical degradation of malononitrile 2- and acetylacetone 3-phenylhydrazones and their derivatives in polymer matrix," Journal fuer Signalaufzeichnungsmaterialien, 1982, 10(5), 373-376; Chemical Abstracts, Vol. 98, No. 22, May 30, 1983, page 79					
	21	Yoshiharu Yagi, "Absorption spectra of azo dyes and their metal complexes. V. The electronic absorption spectra of metal-complexed hydroxyphenylazoacetoacetbenzylamides," Bull. Chem. Soc. Japan, 1963, Vol. 36, No. 5, pages 492 to 517					
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